



***CX1000***  
***Complete Air Purification System***  
***Portable Unit***

***User's Guide***

***Read and save these***  
***Instructions***

***Continental Fan Manufacturing Inc.***  
***Buffalo, NY, U.S.A.***

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## **IMPORTANT SAFETY INSTRUCTIONS**

Always unplug the **CX1000** when it is not in operation, while the filters or UV light are being changed, and when cleaning the unit.

After servicing the unit, both the front and top grill assemblies must be reinstalled in exactly the same manner as prior to removal. If either grill is not reinstalled properly, the **CX1000** will not function. This is a built-in safety feature.

Before using the **CX1000**, extend the power cord and inspect for any signs of damage. Do not use the unit if the power cord has been damaged.

**Warning** - This appliance is designed to be used on a flat and level surface, and may not work properly on an uneven surface. To reduce the risk of electric shock and injury, do not place in a window. Always place the **CX1000** at least 12 inches (30 centimeters) away from heat sources such as stoves, radiators, or heaters.

Do not move the **CX1000** while it is in operation. Always unplug the unit prior to moving it.

Do not immerse the **CX1000** in water, as permanent damage will occur.

**Read and save these instructions.**

## **SPECIFICATIONS**

Manufacturer:	Continental Fan Manufacturing Inc.
Model:	CX1000
Voltage:	1/120V/60
Dimensions:	21.5" W x 18.0" H x 8.0" D
Maximum Amps:	0.95
Maximum Watts:	110
Max Air Flow:	265 cfm
UV Range:	254 NM (germicidal)
Weight:	23 LBS
Application:	1000 sq. feet (auto mode) 2000 sq. feet (super mode)
Catalyst:	Titanium Dioxide
Pre-Filter:	5 micron
HEPA Filter:	0.3 micron hospital grade
Service:	UV LAMP - 1 year FILTERS - 2 years

## FEATURES

Thank you for purchasing the **CX1000** Complete Air Purification System. This unit features unique air purification technologies not found in any other air purifier.

Only **CX1000** combines these features:

- A quiet, energy efficient, backward-curved motorized impeller that moves 265 cfm of air.
- An advanced electronic control system that monitors air quality, room occupancy, air flow, and filter and UV lamp replacement time.
- A six-stage filtration system with gas adsorption media that removes toxic gas, organic hydrocarbons, exhaust fumes, formaldehyde, cleaning chemicals, low-level ozone, unpleasant odors, and paint solvents.
- A hospital-grade, three-stage HEPA filter that removes allergens such as pollen, mold fungal spores, tobacco smoke, insecticide dust, dust mites, and particles as small as 0.3 microns.
- A photo-catalytic oxidation chamber that controls the spread of airborne disease in the home environment. UV light kills viruses and bacteria on contact.
- **Photo-Catalytic Titanium Oxidation**, activated by the UV light, destroys airborne impurities too small to be filtered out. Small amounts of residual activated oxygen and negative ions keep the air clean and fresh, in exactly the same way sunlight and oxygen clean the air we breathe in an outdoor environment.

## UNPACKING THE CX1000

Before unpacking the unit, inspect the shipping container for visible damage. If you feel that you may have received the unit in a damaged condition, notify the shipper or supplier before opening the container. Remove the unit from the box and inspect it for damage. Handle it carefully. Do not drop it!

## INSTALLING THE CX1000

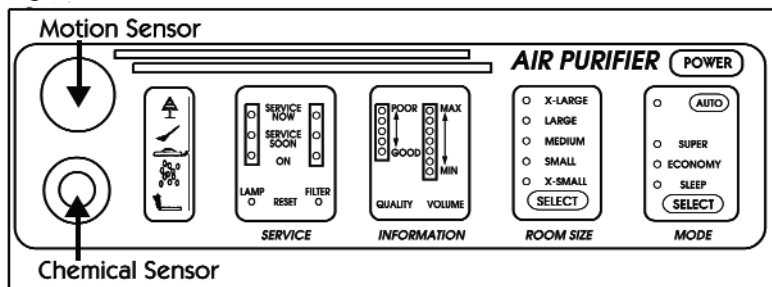
**CAUTION: THIS PRODUCT IS DESIGNED FOR INDOOR USE ONLY!**

Place the **CX1000** in a location that will not restrict air flow through either the air inlet or the air outlet. Plug in the electric cord at the nearest electrical wall outlet.

## USING THE CX1000

1. Press **POWER** button to turn on the **CX1000**. Lights on the control panel (figure 1) will light and the UV lamp will be on.

figure 1



2. Look into the air outlet at the top of the **CX1000** to confirm that the UV lamp is operating. There is a faint blue glow when the lamp is on. If the lamp appears to be off, refer to **UV LAMP INDICATOR LIGHTS** (page 8).

When the lamp is on, the product is ready for operation.

## SELECT ROOM SIZE

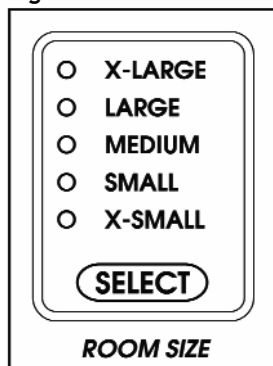
1. Determine the area of the room the **CX1000** is to purify.
2. From the table below, identify the respiratory condition the unit is to serve.

Heavy Duty People with Severe Respiratory Problems		
Super Mode	SQ. FT	SQ. METERS
Extra Large	650	65
Auto Mode	SQ. FT	SQ. METERS
Extra Large	550	55
Large	450	45
Medium	400	40
Small	350	35
X Small	300	30

Light Duty Average home		
Super Mode	SQ FT	SQ. METERS
Extra Large	2000	200
Auto Mode	SQ FT	SQ. METERS
Extra Large	1700	170
Large	1450	145
Medium	1200	120
Small	1050	100
X Small	900	90

3. Use the **Heavy Duty** chart if you suffer severe allergic reactions when exposed to particulate matter (pollen, dust, dust mites, animal dander, etc.) or airborne chemicals (pesticides, herbicides, cleaning solutions, etc.)
4. Use the **Light Duty** chart if you occasionally suffer from mild allergies.
5. Select the desired **ROOM SIZE** by pressing the **SELECT** button (figure 2).

figure 2



## SELECT OPERATING MODE

Select the desired operating **MODE** by pressing the **SELECT** button (figure 3).

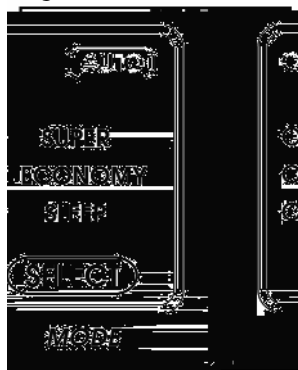
**AUTO MODE** -- This is the mode most commonly used. In **AUTO MODE**, the Chemical Sensor (figure 1) controls the blower speed. If the Chemical Sensor detects an unhealthful amount of chemicals present in the air (indicated by the red light on the quality scale), the electronic controls will automatically increase blower speed.

**SUPER MODE** -- **SUPER MODE** may be selected during periods of high air pollution, such as when winds increase airborne dust and pollen, or during heavy room loading (parties or smoking). Blower speed will increase 25 percent above **AUTO MODE**.

**ECONOMY MODE** -- **ECONOMY MODE** saves energy when the room is unoccupied. When the Motion Sensor (figure 1) detects no motion for 30 seconds, blower speed is reduced to save electricity costs. The blower returns to normal speed when motion is again detected.

**SLEEP MODE** -- **SLEEP MODE** reduces the sound level by slowing blower speed by 30 percent, while still purifying room air at 70 percent of normal operation.

figure 3



## MONITORING OPERATION

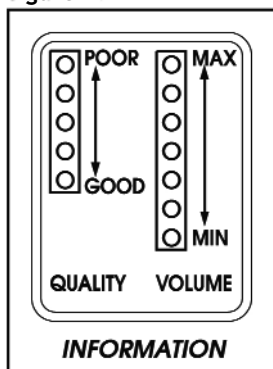
The Chemical Sensor continually monitors air **QUALITY**, and in **AUTO MODE**, controls blower speed and air volume.

Both air **QUALITY** and air **VOLUME** are displayed on the **INFORMATION** panel. (figure 4).

Air **QUALITY** is indicated by one of five lights, indicating a range from **GOOD** to **POOR** (figure 4).

Air **VOLUME** is indicated by one of seven lights, representing a range from **MAX** to **MIN** (figure 4).

figure 4



Set the **CX1000** to move a volume of air appropriate for room conditions. Note that measurements are relative to the selected room size. Make sure that the **ROOM SIZE** panel (figure 2) is always set for the room in which the unit is to operate.

## SERVICE PANEL INDICATOR LIGHTS

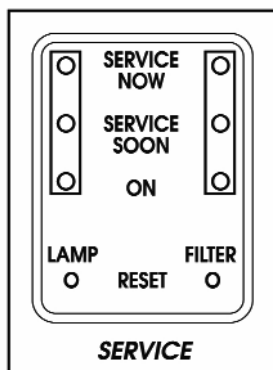
The **SERVICE** panel (figure 5) indicates when maintenance is required. Lights on the **SERVICE** panel indicate if either the UV lamp or the air filters will soon need to be replaced, or if they must be replaced before using the **CX1000** again.

### UV LAMP INDICATOR LIGHTS

The UV lamp has a useful life of one year (9,000) hours), with a one month grace period.

- Green **ON** light is on - The lamp has been in service for less than 12 months.
- Yellow **SERVICE SOON** light is on - The lamp has been in service for more than 12 months. The lamp should be replaced.
- Red **SERVICE NOW** light is on - The lamp has been in service for more than 13 months. The lamp may not be effective and must be replaced.

figure 5



### FILTER INDICATOR LIGHTS

The filters have a useful life of two years in a typical residential environment.

- Green **ON** light is on - The filters have been in service for less than 24 months.
- Yellow **SERVICE SOON** light is on - The filters have been in service for more than 24 months. The filters should be replaced.
- Red **SERVICE NOW** light is on - The filters have been in service for more than 25 months. The filters may not be effective and must be replaced.



## PERFORMING MAINTENANCE

Required Maintenance is:

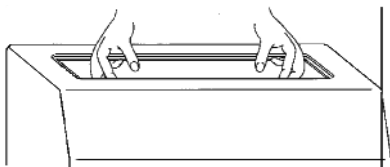
- Replace the UV lamp. (1 year)
- Replace the filters. (2 years)

### REPLACING THE UV LAMP

When the yellow **SERVICE SOON** lamp indicator lights, the UV lamp should be replaced within 30 days.

1. Unplug the power cord from the electrical outlet.
2. Using index fingers, squeeze the locking tabs (figure 6) inward towards the center of the grill on top of the CX1000. Lift the grill and remove.

figure 6



3. Rotate UV lamp one-quarter turn, top-to-rear (figure 7), and remove lamp.

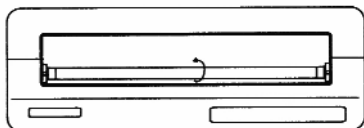


figure 7

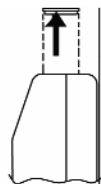


figure 7a

4. Insert new UV lamp by rotating one-quarter turn (top-to-front).
5. Replace grill by pressing it into position until it locks. The aluminum reflector must be positioned over the lamp nearest the front of the unit. (figure 7a)
6. Reset UV lamp timer by lightly pressing the **LAMP RESET** button on the Service Panel with a pin or similar object. The **LAMP** light will return to green and the time will be reset to zero.

## REPLACING THE FILTERS

When the Yellow **SERVICE SOON FILTER** indicator lights, the filters should be replaced within 30 days.

1. Unplug the **CX1000** power cord from the electrical outlet.
2. Rest the **CX1000** on its back (figure 8) to access the bottom of the unit.
3. Press-in locking clips at each end of the front grill.
4. Lift bottom of grill and slide out the grill from the top of the unit (figure 9).
5. Pull out the two filters individually and discard them.
6. Install new HEPA filter in lower slot with its white layer facing upwards.
7. Install new pre-filter in the remaining slot with its green side facing upwards.
8. Replace grill. Slide upper end into grill slot and snap the bottom into place so that it locks.
9. Reset the filter replacement timer by lightly pressing the **FILTER RESET** button on the Service Panel with a pin or similar object. The **FILTER** light will become green, and time will be reset to zero.

Restore the **CX1000** to normal operation as follows:

1. Set the unit in its normal operating position.
2. Plug the power cord into the wall outlet.

figure 8

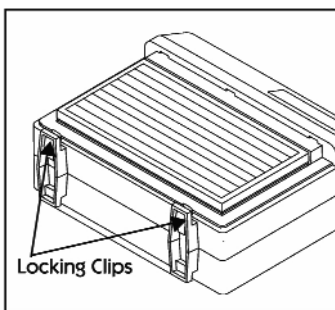


figure 9

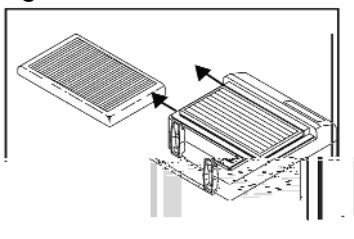
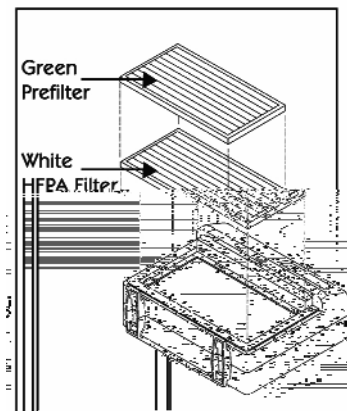


figure 10



## **LIMITED LIFETIME WARRANTY**

Each **CX1000** Complete Air Purification System comes with a **limited life-time warranty**. This warranty provides for repair or replacement of any defective parts or components for two years from the date of purchase at no charge for labor or materials. This warranty does not cover the expendable UV lamp, which **must** be replaced on an annual basis (1-year), or the expendable filter cartridge media, which **must** be replaced every two years or sooner, depending on environmental conditions. All warranty repair work must be performed either at the factory or by a factory certified service center. Shipping cost to the factory or service center is the responsibility of the owner of the **CX1000**. To return product for warranty repair, the customer must first contact the factory for a Return Materials Authorization (RMA) number and a ship to address, as it may differ from the manufacturing location. For material repaired under warranty, shipping costs to the customer will be prepaid for the first two years only. This warranty is provided to the original purchaser of the **CX1000**, and may not be transferred, sold or bartered. This product is not warranted against freight damage, failure resulting from misuse, connection to incorrect voltage, or acts of God such as fires, earthquakes, or floods.

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